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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-01-06-04** **Date: 09-01-18**

Sample ID No : 2018-01-06-04/02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	**12.4**	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	**11.8**	
3	Specific Gravity	**2.69**	_
4	Bulk Density(Loose) (Kg/l)	**1.49**	_
5	Bulk Density(Compacted) (Kg/l)	**1.53**	_
6	Water Absorption(%)	**0.21**	_
7	Aggregate crushing Value(%)	**24.2**	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	**23.6**	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

Note:

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R KARTHIK RECHAN
Authorized Signature
Quality Manager

Asst. Executive Engineer
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TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-01-06-04** **Date: 09-01-18**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains 1st Main road from 3rd Cross to Dead end at Attur layout in Ward No.03
Agency	:	Sri.G. Venkate Gowda, No.53/1, 14th "A" Cross, "A" Sector , New Town, Yelahanka, Upanagara, Banglore-64
Customer's Reference	:	EE(Project)/YnkZone/WO/115/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	06-01-18
Sample ID No	:	2018-01-06-04/03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	06-01-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	80	80	8.0	92.0	90-100	90-100	90-100	95-100
3	2.36 mm	134	214	21.4	78.6	60-95	75-100	85-100	95-100
4	1.18 mm	166	380	38.0	62.0	30-70	55-90	75-100	90-100
5	600 micron	187	567	56.7	43.3	15-34	35-59	60-79	80-100
6	300 micron	177	744	74.4	25.6	5-20	8-30	12-40	15-50
7	150 micron	165	909	90.9	9.1	0-10	0-10	0-10	0-15
8	Pan	91	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : **CP-2018-01-06-04** **Date: 09-01-18**

Sample ID No : 2018-01-06-04/03

PHYSICAL PROPERTIES

SL.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.85	–
2	Specific Gravity	2.56	–
3	Material finer than 75 micron(%)	4.8	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

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Asst. Executive Engineer
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Yelahanka Zone
Bangalore

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 18/01/2018

Lab ID	:	**CP-2018-01-16-06**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains 1st Main road from 3rd Cross to Dead end at Attur layout in Ward No.03
Agency	:	Sri.G. Venkate Gowda, No.53/1, 14th "A" Cross, "A" Sector , New Town, Yelahanka, Upanagara, Banglore-64
Customer's Reference	:	EE(Project)/YnkZone/WO/115/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-18
Sample ID No	:	2018-01-16-06/07
Customer ID	:	Road Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	18/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete	M20	11/01/2018	18/01/2018	150.26 X 150.30 X 150.24	22584	8.298	388.4	17.2	17.6
2	Road Concrete	M20	11/01/2018	18/01/2018	150.32 X 150.36 X 150.40	22602	8.331	409.1	18.1	
3	Road Concrete	M20	11/01/2018	18/01/2018	150.23 X 150.35 X 150.30	22587	8.382	395.3	17.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Date: 08/02/2018

Lab ID	:	**CP-2018-01-16-06**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains 1st Main road from 3rd Cross to Dead end at Attur layout in Ward No.03
Agency	:	Sri.G. Venkate Gowda, No.53/1, 14th "A" Cross, "A" Sector , New Town, Yelahanka, Upanagara, Banglore-64
Customer's Reference	:	EE(Project)/YnkZone/WO/115/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-18
Sample ID No	:	2018-01-16-06/08
Customer ID	:	Road Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Road Concrete	M20	11/01/2018	08/02/2018	150.29 X 150.39 X 150.32	22602	8.345	522.1	23.1	23.2
2	Road Concrete	M20	11/01/2018	08/02/2018	150.24 X 150.28 X 150.31	22578	8.360	514.8	22.8	
3	Road Concrete	M20	11/01/2018	08/02/2018	150.30 X 150.33 X 150.34	22595	8.372	535.5	23.7	

Note:

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Bangalore

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID : **CP-2018-01-16-06** **Date: 18/01/2018**

Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.

Address : Project Sub Division, BBMP, Bangalore.

Project Name : Construction of CC roads and drains 1st Main road from 3rd Cross to Dead end at Attur layout in Ward No.03

Agency : Sri.G. Venkate Gowda, No.53/1, 14th "A" Cross, "A" Sector , New Town, Yelahanka, Upanagara, Banglore-64

Customer's Reference : EE(Project)/YnkZone/WO/115/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 16-01-18

Sample ID No : 2018-01-16-06/05

Customer ID : Drain Concrete

Sample Type /Size : 150X150X150 mm

Sample grade/Age : M20 / 7 Days Compressive Strength

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Date of test : 18/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	11/01/2018	18/01/2018	150.38 X 150.34 X 150.35	22608	8.422	397.9	17.6	18.0
2	Drain Concrete	M20	11/01/2018	18/01/2018	150.29 X 150.26 X 150.24	22583	8.366	404.2	17.9	
3	Drain Concrete	M20	11/01/2018	18/01/2018	150.33 X 150.36 X 150.30	22604	8.431	415.9	18.4	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 09/02/2018

Lab ID	:	**CP-2018-01-16-06**
Customer	:	Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address	:	Project Sub Division, BBMP, Bangalore.
Project Name	:	Construction of CC roads and drains 1st Main road from 3rd Cross to Dead end at Attur layout in Ward No.03
Agency	:	Sri.G. Venkate Gowda, No.53/1, 14th "A" Cross, "A" Sector , New Town, Yelahanka, Upanagara, Banglore-64
Customer's Reference	:	EE(Project)/YnkZone/WO/115/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	16-01-18
Sample ID No	:	2018-01-16-06/06
Customer ID	:	Drain Concrete
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 28 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	08/02/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	11/01/2018	08/02/2018	150.32 X 150.26 X 150.30	22587	8.376	506.0	22.4	22.9
2	Drain Concrete	M20	11/01/2018	08/02/2018	150.32 X 150.29 X 150.29	22592	8.360	528.6	23.4	
3	Drain Concrete	M20	11/01/2018	08/02/2018	150.32 X 150.35 X 150.28	22601	8.398	517.6	22.9	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 17/01/2018

Lab ID : **CP-2018-01-16-06**
Customer : Assistant Executive Engineer, Project Sub Division, BBMP, Bangalore.
Address : Project Sub Division, BBMP, Bangalore.
Project Name : Construction of CC roads and drains 1st Main road from 3rd Cross to Dead end at Attur layout in Ward No.03
Agency : Sri.G. Venkate Gowda, No.53/1, 14th "A" Cross, "A" Sector , New Town, Yelahanka, Upanagara, Banglore-64
Customer's Reference : EE(Project)/YnkZone/WO/115/2017-18
Source of Sample : Sample supplied by Agency
Sample Condition : Satisfactory
Date of Receipt : 16-01-18
Sample ID No : 2018-01-16-06/03
Customer ID : Drain Concrete
Sample Type /Size : 150X150X150 mm
Sample grade/Age : M20 / 7 Days Compressive Strength
Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test : 17/01/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	Drain Concrete	M20	10/01/2018	17/01/2018	150.29 X 150.30 X 150.31	22589	8.297	397.6	17.6	17.3
2	Drain Concrete	M20	10/01/2018	17/01/2018	150.35 X 150.31 X 150.37	22599	8.286	393.2	17.4	
3	Drain Concrete	M20	10/01/2018	17/01/2018	150.25 X 150.29 X 150.22	22581	8.287	381.6	16.9	

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